

Monitoring Data Record

Project Title: Caviness COE Action ID: 200221216

Stream Name: Tibbs Run DWQ Number: \_\_\_\_\_

City, County and other Location Information: Caviness Site, Randolph County, NC

Date Construction Completed: January 2004 Monitoring Year: ( 1 ) of 5

Ecoregion: \_\_\_\_\_ 8 digit HUC unit 03030003

USGS Quad Name and Coordinates: \_\_\_\_\_

**Rosgen Classification: E4**

Length of Project: 1113' Urban or Rural: Rural Watershed Size: 2.21

Monitoring DATA collected by: M. Green, D. Jenkins Date: 12/21/04

Applicant Information:

Name: NCDOT Roadside Environmental Unit

Address: 1425 Rock Quarry Rd. Raleigh, NC 27610

Telephone Number: (919) 861-3772 Email address: \_\_\_\_\_

Consultant Information:

Name: HSM

Address: 1305 Navaho Drive Suite 303, Raleigh NC 27609

Telephone Number: (919)878-5250 Email address: \_\_\_\_\_

**Project Status: Complete**

---

---

**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level 1 2 3

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

---

---

Section 1. PHOTO REFERENCE SITES

*(Monitoring at all levels must complete this section)*

**Attach site map showing the location and angle of all reference photos with a site designation (name,**

**number, letter, etc.) assigned to each reference photo location. Photos should be provided for all structures and cross section locations, should show both banks and include an upstream and downstream view. Photos taken to document physical stability should be taken in winter. Photos taken to document vegetation should be taken in summer (at representative locations). Attach photos and a description of each reference photo or location. We recommend the use of a photo identification board in each photo to identify location.**

**Total number of reference photo locations at this site:** 20 Reference Photo Locations, 40

**Total Photos**

**Dates reference photos have been taken at this site:** 7/29/04, 12/21/04

**Individual from whom additional photos can be obtained (name, address, phone):** \_\_\_\_\_

**Other Information relative to site photo reference:** \_\_\_\_\_

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

**Section 2. PLANT SURVIVAL**

**Attach plan sheet indicating reference photos.**

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Streambank vegetation is dormant at this time. Black willow and silky dogwood livestakes were planted at this site.

---

---

---

Estimated causes, and proposed/required remedial action: No remedial action needed at this time.

---

---

---

ADDITIONAL COMMENTS: Livestakes approximately 1-3' in height.

---

---

---

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Repairs are being planned by the ONE group.

Problem Areas Continued:

Sta. 51+50 downstream photo (water piping through crossvane)

Sta. 52+00 (bank erosion in bend)

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type	Sta. 14+34 @ crossvane (upstream photo)	Sta. 14+34@ crossvane (downstream photo)	Sta. 19+17 @ cross vane	Sta. 20+50 @ log vane	Sta. 29+40 upstream from crossvane
Is water piping through or around structure?	Through	No	Through	No	No
Head cut or down cut present?	No	No	No	No	No
Bank or scour erosion present?	No	Yes	Yes	Yes	Yes
Other problems noted?	No	Minor bank erosion on left arm of crossvane	No	Bank has failed but is stabilizing	Bank erosion upstream from crossvane

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.



# Caviness



Sta. 57+50 West Branch Upstream (US) at X-vane



Sta. 57+50 West Branch Downstream (DS) at Riffle



Sta. 56+30 West Branch US at X-vane



Sta. 56+30 West Branch DS at X-vane and J-hook



Sta. 55+40 West Branch US a J-Hook Vanes



Sta. 55+40 West Branch DS at Log Vanes





Sta. 53+00 West Branch US at X-vane & pipe crossing



Sta. 53+00 West Branch DS at X-vane & rock outcrop



Sta. 51+50 West Branch US at X-vane with rock seal



Sta. 51+50 West Branch DS at X-vane & Test Plot #1



Sta. 50+80 West Branch US at X-vane with rock seal



Sta. 50+80 West Branch DS a X-vane prior to confluence

Winter 2004





Sta. 14+34 West Branch US at X-vane w/ rock seal



Sta. 14+34 Tibbs Run DS at X-vane and pool



Sta. 12+50 Tibbs Run US at X-vane & pipe crossing



Sta. 12+50 Tibbs Run DS at X-vane & pool



Sta. 11+10 Tibbs Run US at X-vane & pool



Sta. 11+10 Tibbs Run DS at riffle, X-vane, and culvert

Winter 2004





Sta. 17+10 Tibbs Run US at J-hook vane & pool



Sta. 17+10 Tibbs Run DS at J-hook vane



Sta. 19+25 Tibbs Run US at riffle section



Sta. 19+25 Tibbs Run at X-vane above stream ford



Sta. 20+80 Tibbs Run US at riffle section



Sta. 20+80 Tibbs Run Ds at Log Vane & Root Wad

Winter 2004





Sta. 22+70 Tibbs Run US at X-vane & pool



Sta. 22+70 Tibbs Run DS at Log Vane & Root Wad



Sta. 24+15 Tibbs Run US at run prior to J-hook Vane



Sta. 24+15 Tibbs Run DS at J-hook Vane & pool



Sta. 25+60 Tibbs Run US at run prior to X-vane



Sta. 25+60 Tibbs Run DS at X-vane & pool

Winter 2004





Sta. 27+00 Tibbs Run US at Log Vane & Root Wad



Sta. 27+00 Tibbs Run DS at J-hook Vane & pool



Sta. 27+80 Tibbs Run US at X-vane & pool



Sta. 27+80 Tibbs Run DS at Log Vane & pool



Sta. 29+40 Tibbs Run US at X-vane & pool



Sta. 29+40 Tibbs Run DS at run & beginning of point bar

Winter 2004





Sta. 30+90 Tibbs Run US at J-hook Vane & pool



Sta. 30+90 Tibbs Run DS at J-hook Vane & pool



Sta. 32+00 Tibbs Run US at X-vane & stream crossing



Sta. 32+00 Tibbs Run DS at glide section

Winter 2004